EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	. 34	HFB1 or HFBII	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:35
S2	11	(HFB1 or HFBII) and (foaming or foam)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:34
S3	5	(HFB1 or HFBII) same (foaming or foam)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:34
S4	148	hydrophobin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:39
S5	18	hydrophobin and (foam or foaming)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:39
S6	8	hydrophobin same (foam or foaming)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:36
S7	· 29	hydrophobin and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:40
S8	11	hydrophobin same fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:41
S9	. 60	hydrophobin and trichoderma	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:42
S10	10	hydrophobin and trichoderma and foam\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:42
S11	22	hydrophobin same trichoderma	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:42

EAST Search History

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S12	15	hydrophobin and trichoderma and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 11:43
S13	428	fungal with host with production	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR .	ON	2007/01/25 12:08
S14	64	fungal with host with production and hydrophobic with proteins	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 12:09
S15	0	fungal with host with production same hydrophobic with proteins	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 12:09
S16	64	fungal with host with production and hydrophobic with proteins	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 12:09
S17	64	fungal with host with production and hydrophobic with proteins and polypeptides	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 12:09
S18	38	fungal with host with production and hydrophobic with protein and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 12:10
S19	0	fungal with host with production and hydrophobic with protein same fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 12:10
S20	38	fungal with host with production and hydrophobic with protein and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/25 12:10

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 12:47:38 ON 25 JAN 2007

68 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

- => (HFBI or HFBII) and foam
 - 1 FILE AGRICOLA
 - 1 FILE BIOENG
 - 1 FILE BIOSIS
 - 1 FILE BIOTECHNO
 - 1 FILE CAPLUS
 - 1 FILE CEABA-VTB
 - 1 FILE EMBASE
 - 1 FILE ESBIOBASE
 - 1 FILE LIFESCI
 - 1 FILE MEDLINE
 - 46 FILES SEARCHED...
 - 1 FILE PASCAL
 - 1 FILE SCISEARCH
 - 8 FILE USPATFULL
 - 2 FILE USPAT2
 - 14 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX
- L1 QUE (HFBI OR HFBII) AND FOAM

=> file agricola bioeng biosis biotechno caplus embase lifesci
COST IN U.S. DOLLARS
SINCE FILE TOTAL
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2.52
2.73

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=> (HFBI or HFBII) and foam L2 7 (HFBI OR HFBII) AND FOAM

- L2 ANSWER 1 OF 7 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2007) on STN
- TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of Trichoderma reesei.
- L2 ANSWER 2 OF 7 BIOENG COPYRIGHT 2007 CSA on STN
- TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of Trichoderma reesei
- L2 ANSWER 3 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
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- L2 ANSWER 4 OF 7 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
- TI Process technological effects of deletion and amplification of hydrophobins I and II instransformants of Trichoderma reesei
- L2 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
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- TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of Trichoderma reesei.
- L2 ANSWER 7 OF 7 LIFESCI COPYRIGHT 2007 CSA on STN
- TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of Trichoderma reesei

=> d ab bib 2

- L2 ANSWER 2 OF 7 BIOENG COPYRIGHT 2007 CSA on STN.
- Transformants of the Trichoderma reeseistrains QM9414 and Rut-C30 were ÀΒ constructed in which the genes for the two major hydrophobin proteins, hydrophobins I (HFBI) and II (HFBII), were deleted or amplified by molecular biological techniques. Growth parameters and foam production of the transformant strains were compared with the corresponding properties of the parent strains by cultivation in laboratory bioreactors under conditions of catabolite repression (glucose medium) or induction of cellulolytic enzymes and other secondary metabolites (cellulose and lactose media). All the transformed strains exhibited vegetative growth properties similar to those of their parent. The Delta hfb2 (but not the Delta hfb1) transformant showed reduced tendency to foam, whereas both strains overproducing hydrophobins foamed extensively, particularly in the case of HFBII. Enzyme production on cellulose medium was unaltered in the Delta hfb2 transformant VTT D-99676, but both the Delta hfb2 and HFBII-overproducing transformants exhibited somewhat decreased enzyme production properties on lactose medium. Production of HFBI by the multi-copy transformant VTT D-98692 was almost 3-fold that of the parent strain QM9414. Overproduction of HFBII by the transformant VTT D-99745, obtained by transformation with three additional copies of the hfb2 gene under the cbh1 promoter, was over 5-fold compared to production by the parent strain Rut-C30. The Delta hfb2transformant VTT D-99676 produced a greatly increased number of spores on lactose medium compared with the parent strain, whereas the HFBII-overproducing transformant VTT D-99745 produced fewer spores.

- AN 2004420860 BIOENG
- DN 5381331
- TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of Trichoderma reesei
- AU Bailey, MJ; Askolin, S; Hoerhammer, N; Tenkanen, M; Linder, M; Penttilae, M; Nakari-Setaelae, T
- CS VTT Biotechnology, Box 1500, 02044 VTT, Finland, [mailto:michael.bailey@vtt.fi]
- Applied Microbiology and Biotechnology [Appl. Microbiol. Biotechnol.].
 Vol. 58, no. 6, pp. 721-727. May 2002.
 Published by: Springer-Verlag, [URL:http://link.springer.de/link/service/journals/00253/bibs/2058 006/20580721.htm]
 ISSN: 0175-7598
- DT Journal
- LA English
- SL English
- OS Agricultural and Environmental Biotechnology Abstracts; Microbiology Abstracts C: Algology, Mycology & Protozoology
- => hydrophobin and foam
- L3 14 HYDROPHOBIN AND FOAM
- => dup remove
 ENTER L# LIST OR (END):13
 PROCESSING COMPLETED FOR L3
 L4 4 DUP REMOVE L3 (10 DUPLICATES REMOVED)
- => d ti 1-4
- L4 ANSWER 1 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2007) on STN DUPLICATE 1
- TI Fungal hydrophobins as predictors of the gushing activity of malt.
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 (2007) on STN DUPLICATE 2
- TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of Trichoderma reesei.
- L4 ANSWER 3 OF 4 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 3
- TI Are hydrophobins and/or non-specific lipid transfer proteins responsible for gushing in beer? New hypotheses on the chemical nature of gushing inducing factors.
- L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
- TI A method for decreasing the foam formation during cultivation of a microorganism
- => d ab bib 4, 3, 2
- L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
- AB This invention relates to a method for decreasing the foam formation during cultivation of a microorganism and to a method for producing an enhanced amount of a product of interest. The method comprises that the microorganism is modified in such a way that the microorganism does not produce an essential amount of at least one of the proteins, polypeptides or peptides associated with foam formation during

cultivation of the unmodified microorganism. In particular the method comprises that the microorganism is modified not to produce an essential amount of amphipathic or hydrophobic proteins, polypeptides or peptides.

- AN 2001:152808 CAPLUS
- DN 134:206662
- TI A method for decreasing the foam formation during cultivation of a microorganism
- IN Nakari-Setaelae, Tiina; Penttilae, Merja; Bailey, Michael; Tenkanen, Maija
- PA Valtion Teknillinen Tutkimuskeskus, Finland
- SO PCT Int. Appl., 65 pp. CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

FAN.	CNT 1																
								APPLICATION NO.									
PΙ	I WO 2001014521																
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L4 ANSWER 3 OF 4 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 3

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- Gushing of beer is characterised by the fact that immediately after AB opening a bottle a great number of fine bubbles are created throughout the volume of beer and ascend quickly under foam formation, which flows out of the bottle. This infuriating gushing phenomenon has been, and still is, a problem of world-wide importance to the brewing industry. It is generally assumed that the causes of malt-derived gushing are due to the use of "weathered" barley or wheat and the growth of moulds in the field, during storage and malting. We now develop a hypothesis connecting several lines of evidence from different laboratories. These results indicate that the fungal hydrophobins, hydrophobic components of conidiospores or aerial mycelia, are gushing-inducing factors. Furthermore, increased formation of ns-LTPs (non-specific lipid transfer proteins), synthesised in grains as response to fungal infection, and their modification during the brewing process may be responsible for malt-derived gushing.
- AN 2002:270203 BIOSIS
- DN PREV200200270203
- TI Are hydrophobins and/or non-specific lipid transfer proteins responsible for gushing in beer? New hypotheses on the chemical nature of

gushing inducing factors.

AU Hippeli, Susanne [Reprint author]; Elstner, Erich F.

CS Lehrstuhl fuer Phytopathologie, Labor fuer Biochemische Toxikologie, Wissenschaftszentrum Weihenstephan, Technische Universitaet Muenchen, Am Hochanger 2, D-85350, Freising-Weihenstephan, Germany S.Hippeli@lrz.tum.de

SO Zeitschrift fuer Naturforschung Section C Journal of Biosciences, (January-February, 2002) Vol. 57, No. 1-2, pp. 1-8. print. ISSN: 0939-5075.

DT Article

General Review; (Literature Review)

LA English

ED Entered STN: 1 May 2002 Last Updated on STN: 1 May 2002

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(2007) on STN DUPLICATE 2

Transformants of the Trichoderma regseisstrains OM9414 and Rut-C30 were AB constructed in which the genes for the two major hydrophobin proteins, hydrophobins I (HFBI) and II (HFBII), were deleted or amplified by molecular biological techniques. Growth parameters and foam production of the transformant strains were compared with the corresponding properties of the parent strains by cultivation in laboratory bioreactors under conditions of catabolite repression (glucose medium) or induction of cellulolytic enzymes and other secondary metabolites (cellulose and lactose media). All the transformed strains exhibited vegetative growth properties similar to those of their parent. The deltahfb2 (but not the deltahfb1) transformant showed reduced tendency to foam, whereas both strains overproducing hydrophobins foamed extensively, particularly in the case of HFBII. Enzyme production on cellulose medium was unaltered in the deltahfb2 transformant VTT D-99676, but both the deltahfb2 and HFBII-overproducing transformants exhibited somewhat decreased enzyme production properties on lactose medium. Production of HFBI by the multi-copy transformant VTT D-98692 was almost 3-fold that of the parent strain QM9414. Overproduction of HFBII by the transformant VTT D-99745, obtained by transformation with three additional copies of the hfb2 gene under the cbh1 promoter, was over 5-fold compared to production by the parent strain Rut-C30. The deltahfb2 transformant VTT D-99676 produced a greatly increased number of spores on lactose medium compared with the parent strain, whereas the HFBII-overproducing transformant VTT D-99745 produced fewer spores.

AN 2002:50907 AGRICOLA

DN IND23281724

TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of Trichoderma reesei.

AU Bailey, M.J.; Askolin, S.; Horhammer, N.; Tenkanen, M.; Linder, M.; Penttila, M.; Nakari-Setala, T.

AV DNAL (QR1.E9)

SO Applied microbiology and biotechnology, May 2002. Vol. 58, No. 6. p. 721-727

Publisher: Berlin, Germany: Springer Verlag. CODEN: AMBIDG; ISSN: 0175-7598

NTE Includes references

CY Germany

DT Article

FS Non-U.S. Imprint other than FAO

LA Englis